Genetically Modified Food

Complete the text:

Genes are ........................ in the DNA, that tell a cell which ...................... to produce. Changing the genes will change the ....................... made by that cell. This happens ........................... through evolution. We can make it happen by ........................... engineering. We choose a gene from a cell of one .................

and insert it into a cell of a different organism. Genetic .................................... is about changing the ...................... of a living thing to change its ....................................... .

engineering messages organism DNA products genetic proteins naturally characteristics

Use these table headings to sort out the information about GM foods.

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| --- | --- | --- | --- |
| Genes for... | are put into... | What the new gene does | Why that is useful |

|  |  |  |  |
| --- | --- | --- | --- |
| A better yield of higher quality potatoes produced | Produces an ingredient of vitamin A | Kills beetles that try to eat the plant | A golden yellow colour from daffodils |
| Soya bean plants | The soya bean plants will not be killed by weedkiller spray | Lettuce plants | The farmer can spray the field to kill weeds but not harm the crop |
| Rice plants | A poisonous chemical | Produces cancer-fighting chemicals | Makes the plants more able to grow out of doors |
| A purple colour from snapdragon plants | Resistance to crop spray | tomatoes | People at risk from cancer can choose the purple tomato |
| Potato plants | The crop can be produced more cheaply | People eating the golden rice are protected from blindness | Frost resistance |

*(Teacher Ref: Boardworks KS4 Biology 1. Genes and Genetic Engineering slides 20-25)*